Order-No.: DD+DIS095.99E

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May 99

ADC COMPACT
Type 5145

Modification Instructions

Please file this document in section 10
of the Technical Documentation ADC COMPACT

Upgrade from PRID 1.1.02 to PRID 1.1.07
and
Upgrade from PRID 1.1.05 to PRID 1.1.07

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Appendix A: ADC C Application Note

printed in Germany

HOME

1 General Information

1.1 Software Prerequisites:

ADC Compact Digitizer:	≥ COP_1112 (recommended: COP_1215, CM+9.5145.1050.2)
ADC Compact Processing Station – MIMOSA SW:	≥ DIPS1.0.09

1.2 Main Changes in PRID 1.1.07*

- DICOM worklist available now (restrictions: fixed AE_title for PACS Broker; query is only made for modality “CR”, but not for status of a study in the PACS Broker).
- DICOM query by accession number.
- New license manager introduced (see point 1.6 as well).
- Speed of detecting, writing to and reading from a cassette chip has been considerably increased.
- “CAPS Lock” can be used on Preview&Identification application now.

* For further details see points 3, 4, 5, 6, and 7 of this document.

1.3 Required Time for the Upgrade

Less than 15 minutes.

1.4 Order No.: EB+4406.0675

Scope of delivery of software upgrade kit PRID 1.1.07

• 1 x CD ROM	PRID 1.1.07
• 1 x Floppy disk	Language files LNG.1.0.05 for PRID ≥ 1.1.05
• 1 x Documentation	Upgrade procedure (DD+DIS095.99E)
• 4 x Floppy disk	CCM Tool 1.1.02
• 4 x License card	For Identification SW, for Preview SW, for RISlink Toolkit SW, for Autorouting SW

1.5 Released Options

The following table shows the released options.

OPTION	Released	New in PRID 1.1.07
ADCC ID SW	YES	No
ADCC Preview SW	YES	No
ADCC RISLink Toolkit SW*****	YES	No (but new features added)*
ADCC Autorouting SW	YES	No

***** New features are “DICOM worklist” and “DICOM query by accession number”.

1.6 New License Policy on Preview & Identification Application

With PRID 1.1.07 a new license policy is established. The policy now is that the license can be switched on by the hospital responsible (system administrator, user), i.e. the license management has been moved from the user “Service” to the user “System”.
A licensed option can be switched on in demonstration***** mode or with a full license. A full license requires a sixteen digit license number. This is a dedicated number for each of the above mentioned software options.
The license number is created in production and is communicated to the client by means of a license card which comes with the ordered software option.
The former license numbers are not valid anymore. Licensed software options purchased before PRID 1.1.07 must be switched on again after the upgrade. Therefore each software upgrade kit PRID 1.1.07 comes with four new license cards which contain valid license numbers.
The new license management is only introduced on the Preview&Identification SW, but not yet on the new Processing Station software VIPS.1.0.09. The new license management will be introduced with VIPS.1.1.xx for the Processing Station.

***** The demonstration license is valid 30 days. After this period the licensed option is deactivated and cannot be switched on in “DEMO” mode again. Demonstration licenses are only available for “ADCC RISLink Toolkit SW” and “ADCC Autorouting SW ”.

2 Upgrade Procedure for PRID 1.1.07

1) Stop PREVIEW & IDENTIFICATION application if running.
2) Make a backup of the complete current “C:\orid” directory somewhere on the hard disk (just to be sure).
3) Insert CD ROM with PRID 1.1.07. The “Install Wizard” starts automatically. If not, eject and insert the CD ROM once again.
4) Window *“Welcome”* appears. Select **<Next>**
5) Window *“User Information”* appears. Fill in Name and Company and select **<Next>**
6) Enter the new license number for the ADCC Preview SW and / or ADCC ID SW
   Note: Edit the license number written on the license card coming with PRID 1.1.07 for the ID-Station SW. The application will not run without that numbers.
7) Window *“Choose Destination Location”* appears. Select destination folder **C:\prid** and select **<Next>**
8) Window *“Start copying files”* appears. Select **<Next>.** Installation starts.
9) Window *“Setup complete”* appears. Select **<Finish>.**
10) A DOS screen appears, before the adc.cpf file will be parsed.
    Press any key to continue.
    ☞ With WINDOWS 95 close the DOS box manually.
11) Window *“Install Java Runtime Environment 1.1.7a”* appears. Select **<Yes>** to continue.
12) Window *“Welcome Java”* appears. Select **<Next>**
13) Window *“Software license agreement”* appears. Select **<Yes>**
    ☞ With WINDOWS 95: if asked to install WINSOCK2, answer **<no>.**
14) Window *“Select components”* appears. Check that both components *"Program Files"* and *"I18N"* are clicked on, and then set path to **`C:\prid\java`** and select **<Next>**
15) Window *“Question”* can appear. Select **<Yes>** to overwrite the contents of this directory.

16) Window *"Start copying files"* appears. Select **<Next>**

17) Window *"Setup complete"* appears. Select **<Finish>**

18) Eject the CD ROM

19) Start the Preview&Identification application.

    The first time PRID 1.1.07 starts, you are asked for the site information. Please fill it in. This window will not appear any more.

20) If the Preview&Identification application works well, delete the backup of the old Preview&Identification software.

3 Solved Problems from PRID 1.1.05 to PRID 1.1.07

- Polling for the cassette and writing to the cassette has been changed. The detection of a cassette in the ID – tablet needs now less than half the time it did with PRID 1.1.05. In addition, the writing speed has also been increased.
- It is now possible to use the "CAPS LOCK" key within the application. It is not necessary any longer to restart the Preview&Identification application to get from one mode into the other. In addition, all extended ASCII characters are accepted now (e.g. "\", "@").
- Problem in the "Initialization → Read" option solved. When the "Read" button in PRID1.1.02/1.1.05 was used it read out all the initialization data correctly, but as soon as the cassette has been removed, the information jumped back to the default values. This is solved now.
- If a cassette was initialized with "plate type = AGFAHD" on PRID 1.1.02/1.1.05, the field "plate type" in the "INFO" of the Processing Station showed as "plate type" AGFATEST. In PRID 1.1.07 this is solved. However, the cassette has to be reinitialized with PRID 1.1.07.

4 Solved Problems from PRID 1.1.02 to PRID 1.1.07

If you upgrade from PRID 1.1.02 to PRID 1.1.07, the following problems have been solved in addition to the ones mentioned in point 3.

- Sometimes there have been some problems if you left the Preview&Identification application in Windows NT. This is solved now.
- Auto detection of cassette stops working after a while. This is solved now.
- Leading and/or trailing spaces are automatically removed from the fields "Radiologist" - "Examination" - "Sub examination". Leading and/or trailing spaces resulted in that some "Sub examination" have not been displayed in the Identification screen. This is solved now.
- RISlink
  There are existing three versions of the RIS data file

Version0 or V0:	Used in ADC70-ID-Stations
Version1 or V1:	Used in PRID 1.1.02
Version2 or V2:	Latest version

  The version number has to be in the RIS data file in the field 0019,1001. If the field 0019,1001 does not exist in the RIS data file, PRID 1.1.05 assumes version 0.

  PRID 1.1.02 did not check the version field 0019,1001 at all. It always assumed version 1. This could have caused problems if the RIS data files were sent to PRID 1.1.02 with the format of version 0 (i.e. ADC70 ID-Station format) or version 2.
  PRID 1.1.05 checks the contents of version field 0019,1001 and interprets the entries accordingly. If no version field is found in the RIS data file, PRID 1.1.05 assumes version 0.

  RIS data files accepted by the old ADC70 ID-Station are regarded as version 0 files, because the field 0019,1001 does not exist in there.

For information about the format of the RIS data file please see the RISlink toolkit user manual.

5 What's new from PRID 1.1.05 to PRID 1.1.07

- New license management has been introduced in PRID 1.1.07. Licenses on the Preview&Identification application are not switched on any more by service, but by the system manager. Use only the license number of PRID 1.1.07. Others won't work.
  Four options are available now:
  - ADCC ID Software
  - ADCC Preview SW
  - ADCC RISLink Toolkit SW
  - ADCC Auto-routing SW

  The license numbers for the "ADCC ID Software" and "ADCC Preview Software" have to be entered during fresh installation or during upgrade.
  The numbers for "ADCC RISLink Toolkit SW" and "ADCC Auto-routing SW" have to be edited in the new license manager.
- RIS function has been enlarged by two new modes of working.
  - "DICOM" mode — Supports retrieval of DICOM worklist from the MITRA PACS Broker. However PRID 1.1.07 queries the PACS Broker only for the modality "CR". Based on that the DICOM worklist is build. No other criteria (e.g. status of an examination in the PACS Broker) is queried for. In addition no alphabetical ordering is possible. Refer to new RISLink Toolkit User Manual for more information as well.
  - "Accession" — Retrieves patient information from the MITRA PACS Broker by means of the accession number (= RIS–ID). Refer to new RISLink Toolkit User Manual for more information as well.
- GUI-tool (Graphical User Interface Design tool to customize Identification screen).
  - The GUI-tool has got an "Update"-button now. This allows to update the ID-screen template whenever you like. In PRID 1.1.05 every change was updated right away, which made the configuration very slow.
  - "Save" button is changed to "Apply" button.
  - "Menu font size" can be set now as well. This applies for the labels of the drop down menus and for the menu options themselves.
- Drop down menu options have been adapted to functionality of PRID 1.1.07

  Options removed from the Identification application:

  <u>Configuration – System Manager</u>
  - screensaver

  <u>Configuration – Service</u>
  - RISLink option
  - Auto-routing option

  } covered by new license manager
  - Full leg/spine option — license moved to DIPS
  - Study option — no license anymore

  Options added to the Identification application:

  <u>Configuration – Operator</u>
  - Always to front — ID is always in front

➢ Hold Status	works together with RISLink now
Configuration – System Manager	
➢ License ...	New license management
Configuration – Service	
➢ Site Info	Allows to view/edit Site Info, edited during the SW installation
➢ Reset Counters	Reset Infocounters

- Infocounters are created now for Preview&Identification activities. The counters are stored in the file “C:\prid\log\counter.txt.
- “Info” under option “Help” is supported now. Please refer to the User Manual for an example.

6 What’s new from PRID 1.1.02 to PRID 1.1.07

If you upgrade from PRID 1.1.02 to PRID 1.1.07 the following new functions are available in addition to the ones mentioned in point 5.

- The Preview&Identification application asks for confirmation if you want exit it.
- The Preview&Identification application cannot be started twice anymore.
- The patient list is automatically sorted now.
- In the patient list a patient can be selected by entering the first character of the name.
- If the Identification window is minimized and a cassette is inserted into the Identification tablet, the warning "`Please maximize ID station window`" is displayed.
- In the “Study” mode with activated “HOLD” function the customer has to press the “Proceed” button on the Preview station only on one image of the series. With PRID 1.1.02 every image of the series had to be "proceeded" seperately.
- The "Patient read" in the Identification screen is inactive now.
- The “ADCC Link SW” (two images on one film) does not require a license number anymore.
- In the cassette initialization menu the 35" x 43" cassette with 21" x 43" scan size can only be configured with high resolution.
- The “Time Host” feature (System Manager ⇒ time host feature) has been introduced. This allows to select a host in the ADC cluster from where the time is retrieved. The path for the time host has to be set via the CCM tool. At the moment only the Preview&Identification software and the Processing Station support this feature, but not the ADC Compact Digitizer.
- The “Cpf Host” feature (System Manager ⇒ cpf host feature) has been introduced. This allows to select a host in the ADC cluster from where the configuration file “adc.cpf” is retrieved during startup. The path for the cpf host has to be set via the CCM tool. At the moment only the Preview&Identification software and the Processing Station support this feature but not the ADC Compact Digitizer. As the “adc.cpf” file must be equal in the complete ADC cluster, please do not switch on this feature until it is implemented in the ADC Compact Digitizer as well.
- The file “adc32.exe” is included in the PRID 1.1.05 now. This file is necessary to work with the MITRA PACS broker and to do a query by accession number.
- The “GUI configuration” tool (GUI = Graphical User Interface) has been introduced. This allows to configure the Identification screen of the Preview&Identification Station. Before, you had to edit the file “layout.ini” manually.
- From the “Study UID” leading zeros are removed now.

- Driver for a buzzer implemented. A buzzer will be introduced in the Identification tablet soon.
- Test function for the sound devices implemented.
- Film layout determination in function of cassette.
- Installation procedure for language files implemented (Service ⇒ Install languages).
- A new identifier for the “Proceed/Cancel” function on the Preview software has been introduced. A complete study can be “proceeded” by just pressing the “Proceed” button on one preview image. The Processing Station knows which images belong to a certain study and sends the rest of the images in that study to their predefined destinations as well (supported from VIPS.1.0.05 or higher on).

7 Known Bugs not solved yet (PRID 1.1.07)

- Time zone setting does not regard daylight saving.

  Workaround: A manual adjustment is necessary.
- In the “RISLink Toolkit SW” in the “DICOM” worklist no AE_title for the PACS Broker can be configured. It is preset in the software and is always “BROKER”. No workaround exists.
- When a window outside the “remove cassette” box is clicked, the “remove cassette” message box gets hidden and the system seems to be blocked.
  Workaround: Remove the cassette.
- The time zone description is not clear enough. No workaround exists.

Appendix A: ADC C APPLICATION NOTE

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ADC C APPLICATION NOTE

Subject: ***System Release ADC C (COP_1112, VIPS1009, PRID1107)***

Component name/Option:

Component	Release vers./ Status	Option	Released	Medium/Format	ABC
Autoprocessing SW	**VIPS1.0.09/ C**			Unix CD-ROM	37J5M
		Interactive processing SW	Yes		37J6O
		ADCC Autorouting sw	Yes		368K2
		ADCC Uro tomo software	Yes		368L4
		ADCC Pediatric software	No		37J7Q
		ADCC Dental software	No		37J8S
		ADCC Full leg/spine sw	Yes		37J9U
		ADCC smart Print sw*	No		
		ADCC Annotation software	Yes		368M6
		ADCC Black border sw	Yes		368OB
		ADCC Dose monitoring sw	Yes		368PD
		ADCC Auto QC software	Yes		368QF
		ADCC Dicom store connection	Yes		37KD5
		ADCC Softcopy toolkit	Yes		37KE7
		ADC PS5000 upgr to ADCC	No		37KFA
ID software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J2F
Preview software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J3H
		ADCC Rislink toolkit sw	Yes		368JZ
COMPACT Custom/Conf. Tool	**COP_1112/ C CCM1.1.02/C**			3x HD/DOS 4x HD/DOS	
Shipment.CPF	CPF.S.4.0.05/**C**			1x HD/DOS	

* ADCC “overview printing” and “slide printing” will be replaced by one Software package :ADCC “smart print”

1 Scope of the Document

This document describes the application related issues of the customer release of ADC C (COP_1112, recommended COP_1215, order Nr.: CM+9.5145.1050.2,
VIPS.1.0.09,
PRID 1.1.07).

2 General

- New user manuals are available for the ID Software (code 2201B), Rislink (code 2209C)and Basic System (code 2200B). These manuals are also available in pdf format. You can order additional copies of the manuals by sending an e-mail to Hugo Geyskens (tel 7255). If you order the new user manuals, you should use the code followed by the country code. e.g. 2201B D for Germany.
- Performance of the System:

  A processing Station (VIPS) can handle 140 images standard resolution. This means that 1 VIPS can handle 2 ADCC at full load under the following conditions:

  -The images must be standard resolution
  -Only “on-line hardcopy” output from the Processing Station

  It is possible to connect maximum 3 ADCC’s to one Processing Station (VIPS) reducing the workload on each digitizer accordingly.

3 New Options

- Full leg/Spine. (user manual code 2214A)
- Auto QC software. (user manual code 2217A)
- ADCC Test Phantom Set (will be available from juli on)
- Holder for Full leg/spine (will be available from september on)
- ADB (Agfa DICOM Bridge) This software is included on the VIPS1009 CD. You can use this software to create study folders when ADCC is connected to a PACS system.
- DICOM worklist is available on PRID with the restriction of a fixed AE_title.
- New license manager on PRID under system administrator. The user can switch on the license himself. Because the old license numbers do not work on this version, a license card for Identification station, Preview, Rislink and Autorouting is delivered with the upgrade.

4 General Functions which are not implemented or supported yet:

- Overview and slide option. Will be available in next release (end 1999) as **one** new Software package: **“Smart Print”**
- Switching on licenses by the customer on the VIPS. The customer has to enter the license number which is validated by the system. Will be available in next release (end 1999)
- Pediatric and Dental software . Will be available september 1999.
- PRID on Unix.

5 System Requirements:

- System disk should be at least 2 Gbyte.
- Minimum 128 Mbytes of RAM for DIPS and basic VIPS operations.
- Minimum 192 Mbytes of RAM for full leg/spine software.
- Maximum 27 Gbytes of total diskspace is supported.

6 Bug Fixes

See Modification Instructions MED CSO for a detailed list of solved problems.

The most important bug fixes are:

- VIPS system slows down when image disks are completely filled up with images. (this was a problem with the auto delete function)
- VIPS User Interface stability is significantly improved. Crashes are dramatically reduced.
- Annotation in Zoom is possible.
- New way of drawing Annotations. To avoid dotted annotations a black line is drawn around white annotations.
- Date format is set according to the language setting on the VIPS.
- Lists of selection are sorted without taking into acount CAPS.
- PRID slow writing information to the chip is solved.
- Caps Lock can be used on PRID.

7 Known Bugs:

- Collimation:sometimes a jagged Black line is drawn diagonally over the image (so called Zorro effect). This will be solved in next release.
- Annotation not printed on film. Work arround: reboot the VIPS.
- If an image transmission to a certain destination (HCP, SCP, IMPAX) fails, the “sent” flag is reset to “Not sent”. However a UI reset is required to update the status flag.
- Rislink:Fixed AE_title for DICOM worklist.
- PRID: when a window outside the “remove Cassette” box is clicked, the “remove cassette” message box gets hidden and the system seems to be blocked. Workaround: Remove cassette.
- Time zone should be set in the PRID application (not in windows). Will be solved in next release.